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AIR PROTECTION BRANCH

APPLICATION FOR PERMIT TO CONSTRUCT, MODIFY OR OPERATE PROCESS EQUIPMENT, FUEL BURNING EQUIPMENT AND/OR AIR POLLUTION CONTROL DEVICES

DO NOT WRITE IN THIS SPACE...

Permit No. 3295-105-9854

Date Approved: _____

Date Disapproved: _____

Reviewer: J. Yates

Complete and return two copies to:

Air Protection Branch
Environmental Protection Divsion
Floyd Towers East
205 Butler Street, Room 1162
Atlanta, Georgia 30334

Southern Talc Co., United Catalysts, Inc. Group
NAME OF FIRM, INSTITUTION OR ESTABLISHMENT

Drawer F | Chatsworth, | GA | 30705
MAILING ADDRESS OF CENTRAL OFFICE (Street or P. O. Box) (City) (State) (Zip Code)

Southern Talc Co. | State Highway 52 | Chatsworth, | Murray | 30705
FACILITY DESIGNATION AND LOCATION (Street Location) (City) (County) (Zip Code)

Don Kennedy | Operations Manager | 404-695-4537
PERSON TO CONTACT REGARDING APPLICATION TITLE TELEPHONE

Instructions for each section of this form are found with that section. Please study and follow all instructions carefully to avoid having to resubmit applications. Feel free to submit additional details as needed. All supplemental and supporting data or information hereafter submitted and all representations hereafter made to EPD with respect to the proposed facility will be construed as part of this application. If there are specific questions or sections that are not understood, please call 404/656-4867 for assistance. A special application is available for incinerators and fuel storage facilities. If an operating permit has been received or applied for, then it is only necessary to complete this application for that portion of the operation that is to be constructed or modified.

SECTION I - GENERAL INFORMATION

A. This application is for: a permit to operate X; a permit to construct X; a permit to modify existing equipment ___; and/or a revision of data submitted on an earlier form ___ dated _____.

B. This application is for: process equipment X; fuel burning equipment X; an entire facility X; air pollution control equipment X; other ___, specify _____.

C. Has this operation been previously permitted? Yes.
If yes, give date 8/13/76 and Permit Number 3295-105-4983-0.

D. If a modification or new construction, give best estimate of starting date _____ and completion date _____. If this is a major modification or construction project, please attach details of intermediate dates for completion of project.

This application is submitted in accordance with the provisions of the Georgia Air Quality Control Rules and Regulations and to the best of my knowledge it is complete and correct. Sections: ___, ___, ___, ___, ___ and ___ are not applicable and are not included.

NAME OF OWNER OR AUTHORIZED OFFICIAL DONALD F. KENNEDY TITLE GENERAL MANAGER

SIGNATURE _____ DATE 11-25-87

E. Do you use or do you plan to use a consultant for any part of this project? YES
If yes, give name, address and phone number of consultant(s). Also give areas in which consultant(s) will be giving assistance, such as design, modeling or stack testing.

INSTRUCTION: The SOURCE CODE is an alphanumeric code with up to three characters, such as 27, AA, B22 or 953, used to relate the information given in different sections of this application. A different source code should be used for each piece of process equipment, each air pollution control device and each stack. The second column of the air pollution control equipment section and the stack data section will refer back to the source codes used in the process and fuel burning sections. Use the same source code throughout the application whenever giving data on the same source. For example B4 may refer to number 4 boiler, C4A and C4B may be the control devices on number 4 boiler, and S4 might be the stack on the boiler and control devices. THE ACTUAL SELECTION OF SPECIFIC SOURCE CODES IS UP TO THE APPLICANT.

THE FOLLOWING THREE ITEMS MUST BE INCLUDED FOR ALL APPLICATIONS UNLESS PREVIOUSLY SUBMITTED. IF IN DOUBT, RESUBMIT. PLEASE PLACE NUMBER OF ATTACHMENTS OR DATE OF ORIGINAL SUBMITTAL IN BLANK SPACE BY EACH.

F. _____ Attach a plot plan that shows the location of the facility and points of discharge, identified by source codes used in application, in relation to the surrounding area. Plot plans should show roadways, residences and other permanent structures, the scale used and at least one set of Longitude and Latitude lines or UTM coordinates. In practice many applicants find it more convenient to show a sketch of the plant area on one plot and locate the general plant site on a separate county or city map.

G. _____ Attach a flow diagram identifying process and control equipment, where raw material enters process, where waste exits, where air emissions are generated and where finished products are handled. Each point should be identified according to the source codes used in the application in addition to its normal description.

H. _____ Give a description below of the general production process and the specific operation for which a permit is requested. Attach additional sheets if necessary to give an adequate description. Also include additional layout drawings as necessary to describe each process. Reference should be made to source codes used in application.

SECTION II-A DESCRIPTION OF PROCESS AND OPERATIONAL DATA

*SIC: Standard Industrial Classification

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SECTION II-B DESCRIPTION OF PROCESS AND OPERATIONAL DATA

CHEMICALS LIST

List all raw materials, products, process and non-process chemicals, intermediates and toxic materials found at facility that are not already listed in Section II-A. IUPAC or commonly known chemical names are preferred. If only a trade name is known, indicate manufacturer. Submit additional data on toxicity and usage if appropriate. It is not necessary to list products that are simple mixtures, blends or solutions of chemicals already listed.

LIST OF CHEMICALS	USED FOR	TOXICITY	OFFICE USE ONLY
Talc	Filler		
Caustic (Sodium Hydroxide)	Treatment		
Calgon	Treatment		

company name _____ date of appl

SECTION III-A BOILERS AND FUEL BURNING EQUIPMENT

SOURCE CODE	TYPE UNIT Ex:dryer, boiler or burner	BOILER OR UNIT DESIGNATION Give Mfr. and Model Number.	TYPE BURNER* Ex:gun type oil, spreader stoker, pulverized coal.	TYPE DRAFT* Ex:natural, induced or balanced	CAPACITY OF UNIT 10^6 Btu/Hr Input		% FUEL FOR SPACE HEAT	PER-* CENT EXCESS AIR	DATE OF INSTAL-LATION	TYPE FUEL Ex:#2 oil. pine bark or butane
					DESIGN	MAXIMUM				

[redacted]

Coal fired

* These sections do not need to be filled in for Natural Gas fired units.

SECTION III-B FUEL DATA

SOURCE CODE	TYPE FUEL Ex: natural gas, wood	ANNUAL CONSUMPTION					HOURLY CONSUMPTION Ex: Lb/Hr, Gal/Hr.		HEAT CONTENT* Ex: Btu/Gal., Btu/lb, Btu/Ft^3		% SULFUR*		% ASH IN SOLID FUEL	
		TOTAL QUANTITY Give units, Ex: Tons Gal CCF.	PERCENT USE BY SEASON											
			MAR-MAY	JUNE-AUG	SEPT-NOV	DEC-FEB	Maximum	Average	MIN.	AVG.	AVG.	MAX.	AVG.	MAX.

NOTE: Give name and address of primary fuel suppliers.* COAL: _____

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FUEL OIL: _____

OTHER: _____

Southern Talc Co.
company name date of appl.

SECTION IV-A1 AIR POLLUTION CONTROL EQUIPMENT

NOTE: This section is divided into two parts: the "A" part is for general information on all Air Pollution Control Equipment; the "B" part is for detailed information on specific types of Air Pollution Control Equipment.

SOURCE CODE OF CONTROL EQUIP.	SOURCE CODE FOR BOILER, OR PROCESS. (Sect.II&III)	TYPE AIR POLLUTION CONTROL EQUIPMENT Ex: Baghouse, ESP, Cyclone, Scrubber.	DATE OF INSTAL-LATION	MAKE & MODEL NO: Attach Mfr.Spec. and Literature.	IS UNIT MODIFIED FROM MFR. SPEC.? IF YES, EXPLAIN ON SEPARATE SHEET	% CONTROL EFFICIENCY		INLET GAS FLOW RATE Actual CFM
						DESIGN	ACTUAL	

SECTION IV-A2 AIR POLLUTION CONTROL EQUIPMENT - GENERAL INFORMATION

SOURCE CODE OF CONTROL EQUIP.	POLLUTANTS REMOVED Ex:Saw Dust, Odor, Solvent Fumes, SO_2, Flyash, Acid Mist.	INLET LOADING TO COLLECTOR		INLET GAS TEMP. °F	EXIT LOADING FROM COLLECTOR		EXIT GAS TEMP °F	PRESSURE DROP ACROSS UNIT Inches of H_2O
		lb/hr	HOW DETERMINED*		lb/hr	HOW DETERMINED*		
001	Talc	3,000	Estimated	180	0.9	Calculated	180	3" W.C.
002	Talc	12,000	Estimated	180	3.6	Calculated	180	3" W.C.
003-016	Talc	300	Estimated	100	0.09	Calculated	100	3" W.C.
					(each of 14)			
017	Talc	1,000	Estimated	100	0.30	Calculated	100	3" W.C.
018	Talc	1,600	Estimated	120	0.48	Calculated	120	3" W.C.
019	Talc	1,400	Estimated	100	0.42	Calculated	100	3" W.C.
020	Talc	700	Estimated	120	0.21	Calculated	120	3" W.C.
021	Talc	700	Estimated	100	0.21	Calculated	100	3" W.C.
022	Talc	1,400	Estimated	100	0.42	Calculated	100	3" W.C.
023	Talc	700	Estimated	100	0.21	Calculated	100	3" W.C.

* EXAMPLE: Stack Test, Material Balance, Emission Factors or Calculations Based on Manufacturer's Specifications.

Southern Rate
company name date of appl.

SECTION IV-B AIR POLLUTION CONTROL EQUIPMENT - SPECIFIC DETAILS

SCRUBBERS

SOURCE CODE OF CONTROL EQUIP.	TYPE SCRUBBER Ex: Venturi, Packed Tower, Spray Chamber	SCRUBBANT CHEMICALS Ex:Sodium Hydroxide, Hypochlorite, Lime, or Permanganate.	AVG. pH	SCRUBBANT FLOW RATE Gal/min.	MATERIALS OF CONSTRUCTION Ex: Plastic, 1040 Steel	SIZE OF PONI OR HOLDING TANK Acre-ft,Gal

Attach a physical description, dimensions and drawings of each scrubber and any additional information available such as: sketch and description of pond system; type and size of packing; packed height or depth; type of flow (Ex:Concurrent,Crossflow or Countercurrent); maintenance schedule; nozzle pressure and number of nozzles; throat area of venturi; particle size distribution curve; particle size collection efficiency curve; and monitoring procedures.

BAGHOUSES AND OTHER FILTER COLLECTORS

SOURCE CODE OF CONTROL EQUIP.	SURFACE AREA OF FILTER Sq-Ft.	NUMBER OF BAGS	INLET GAS DEW POINT °F	FILTER MATERIAL Ex:Fiber Glass, Dacron, Cotton, Nomex, Felt.	GAS COOLING METHOD Ex:Heat Exchanger, Bleed-In Air,Water Spray.	CLEANING METHOD Ex:Reverse Air, Pulse Jet,Pulse Air or Shaker.
001	6,000	330		Dacron	None	Pulse-Jet
002	4,000	225		Dacron	None	Pulse-Jet
003-016	260	36		Dacron	None	Pulse-Jet
020, 021,023	1,200	80		Dacron	None	Pulse-Jet
017,018 019,022	1,850	105		Dacron	None	Pulse-Jet

Attach a physical description, dimensions and drawings for each baghouse and any additional information available such as: particle size, maintenance schedules, monitoring procedures and break-down or by-pass procedures. Explain how collected material is disposed of or utilized.

OTHER CONTROL EQUIPMENT

For all other control equipment, such as electrostatic precipitators, hydrocarbon vapor control systems and multiclones, attach separate sheets explaining details of construction and operation. Explain by-pass and break down procedures, maintenance procedures and monitoring procedures. Describe procedures for disposal of collected material.

Southern Talc

comp name date of appl.

SECTION V - EMISSIONS DATA

SOURCE CODE OF STACK	SOURCE CODE OF CONTROL DEVICE	SOURCE CODE OF BOILER OR PROCESS	POLLUTANT EMITTED# Ex:Lead,CO, SO_2,NO_x,HC, Particulate	EMISSION RATES				
				Lb/Hr AVG	Lb/Hr MAX	Lb/10^6 BTU INPUT**	HOW DETERMINED* Ex:Stack Test, AP-42,Material Balance,Guess	TON/YR EMITTE
001	001	001	Talc	0.9			Calculated	3.6
002	002	002	Talc	3.6			Calculated	14.4
003-016	003-016		Talc	0.09			Calculated	0.36
				(each of 14)			Calculated	5.04 tot for 14
017	017		Talc	0.30			Calculated	1.2
018	018		Talc	0.48			Calculated	1.92
019	019		Talc	0.42			Calculated	1.68
020	020		Talc	0.21			Calculated	0.84
021	021		Talc	0.21			Calculated	0.84
022	022		Talc	0.42			Calculated	1.68
023	023		Talc	0.21			Calculated	0.84

Use a separate line for each pollutant emitted from stack.
* If emission rates were determined by source test, please submit test report with method us
** Complete this column only for boilers and other fuel burning equipment.

SECTION VI-A STACK DATA*

SOURCE CODE OF STACK	SOURCE CODE FOR BOILERS OR PROCESS (SECT. II&III)	STACK DIMENSIONS		DIMENSIONS OF LARGEST STRUCTURE NEAR**STACK		EXIT GAS CONDITIONS AT MAXIMUM EMISSION RATE			
		HEIGHT ABOVE GRADE	INSIDE DIAMETER AT EXIT	HEIGHT Ft.	LONGEST SIDE Ft.	VELOCITY Ft/Sec	TEMP. °F	FLOW RATE ACFM AVG.	FLOW RATE ACFM MAX.
001	001	80'	30"			50	180	21,000	
002	002	80'	30"			50	180	11,000	

*NOTE: If emissions are not thru a stack, describe point of discharge on separate sheet.

SECTION VI-B STACK MONITORING DATA

SOURCE CODE OF STACK	STACK PARAMETER MONITORED Ex: Opacity, SO_2, CO, O_2, Flow rate	MONITOR INSTALLATION DATE	MANUFACTURER OF MONITOR	NAME AND/OR MODEL NUMBER

**NOTE: These two columns are only required if the height of the stack is greater than 90 fee
A structure is considered near the stack if the distance between the stack and the structur
is less than 5 times the height or width of the structure. The structure the stack is comm
from is also considered "near" the stack.

SOUTHERN T ; CO.

company name | date of appl.

SECTION VII - FUGITIVE EMISSIONS

INSTRUCTION: Describe all precautions to be used for control of fugitive emissions from sourc listed below: (Use additional sheets if necessary) Show all source codes on plot plan.

1. Inplant roads
2. Bulk-loading facilities
3. Railroad cars and truck clean out
4. Silos - show separate groups and number
5. Bagging machines
6. Open hoppers
7. Conveying, handling and transportation systems
8. Accumulation of material on yards and property
9. Gas leaks or vapor vents
10. Other

FUGITIVE EMISSION SOURCE CODE	DESCRIPTION OF SOURCE Ex:Rail car loading,waste storage pile.	EMISSION REDUCTION PRECAUTIONS Ex: Cover storage piles, Daily wet down of road dust, Baghouse on grain silo,Filters on vents, special seals, etc.
1	Roads	Partial pavement of roads into facility
2	Bulk-Loading	Fugative dust vented to dust collector
3	Car Cleanout	None anticipated
4	Storage Bins	All bins have bin vent
5	Bagging Machines	Vent to Dust Collector
6	Open Hoppers	None anticipated
7	Conveying	Conveyors will have closed transfer points
8	Accum. on yard	Will be cleaned and transferred to storage
9	Gas Leaks or Vapor	None

SECTION VIII - STORAGE VESSEL DATA

Fill in blanks on the top and bottom of this page for each tank.

	Tank No.	Capacity (gallons)	Material Stored	Mat. Mol. Wt.	Reid Vapor Pressure (psi.)	Storage Temp. (°F)	Tank Dia. (ft.)	Average Throughput (gal/day)	Color of Tank	Type of Tank Ex., Fixed roof, Floating roof, etc..
A.	400/401	3000	Slurry (Talc/Water)		N/A	AMB.	8'		Light	Fixed
B.	402	2000	Calgon		N/A	AMB.	7'		Light	Fixed
C.	403	3000	Calgon		N/A	AMB.	9'		Light	Fixed
D.	404	5000	50% Caustic		N/A	AMB.	9'		Light	Fixed
E.	405	1000	Caustic		N/A	AMB.	6'		Light	Fixed
F.	406	2000	Caustic		N/A	AMB.	7'		Light	Fixed
G.										
H.										

	Type of roof seals. (primary and secondary) Ex., Metallic shoe with rim mounted secondary seal.	Ht. of vent above ground. (ft.)	Max. rate of filling. (gal/hr.)	Average Vapor Space Ht. (ft.)	Pressure vent opens at. (psi.)	Briefly describe the equipment and/or procedures used to control emissions. Ex., Carbon Filtration, Conservation Vent, etc...	Briefly describe the equipment and/or procedures used to control spills. Ex., Concrete Dikes.
A.	N/A	12-15'				NONE	Concrete Dikes
B.	N/A	12-15'				NONE	Concrete Dikes
C.	N/A	12-15'				NONE	Concrete Dikes
D.	N/A	12-15'				NONE	Concrete Dikes
E.	N/A	12-15'				NONE	Concrete Dikes
F.	N/A	12-15'				NONE	Concrete Dikes
G.							
H.							